

Software Test Automation Virtual Internship Program

1 **TEST PLAN IEEE FORMAT:**

1. **Test Plan ID:** Unique No. or Id or Name of the test plan
2. **Introduction:** About the Project and testing
3. **Test Items:** Names of Modules/ Functions/ Services/ Features
4. **Features to Be Tested:** Responsible Modules for the Test Design
5. **Features Not to Be Tested:** Which ones to test and which ones not to test (e.g. Features of previous version of the Software)
6. **Approach:** List of testing techniques to be applied on the modules (prepared by QA/PM)
7. **Features Pass/Fail Criteria:** When above features are pass and when they fail
8. **Suspension Criteria:** Possible abnormal situations arose during testing of above features. Without recovering from these situations, you are not able to conduct testing. (Technical problems with respect to project)
9. **Test Environment:** Required hardware and software including testing tools to conduct testing
10. **Test Deliverables:** Required test documents to be prepared during testing (Test Cases, Test Procedures, Test Log, Test Report)
11. **Test Tasks:** necessary tasks to do before starting of every project testing
12. **Staff and Training Needs:** The names of test engineers and required training sessions
13. **Responsibilities:** Work allocation in terms of test engineers Vs Modules
14. **Schedule:** Dates and Times
15. **Risks and Mitigations:** Analyze risks and possible solution to overcome them
16. **Approvals:** Signatures of Test Plan Author and PM/QA

2 TEST PLAN DOCUMENT FOR AMAZON APPLICATION:

1. Introduction:

- ✓ The purpose of this project report is to provide a comprehensive overview of the testing activities conducted for an e-commerce website.
- ✓ The testing activities were carried out to ensure that the website functions as expected, meets the requirements, and delivers a high-quality user experience. The report includes details on the testing objectives, scope, testing approach, test environment, test activities, test results, and recommendations for improvement.
- ✓ Verify the functionality of the website, including product browsing, product search, shopping cart, checkout process, payment processing, and order confirmation.

2. Test Items:

- ✓ User Registration
- ✓ User Login
- ✓ Product browsing and searching
- ✓ Shopping cart functionality
- ✓ Order confirmation

3. References:

- ✓ Requirements
- ✓ Project Plan
- ✓ Test Strategy
- ✓ Use cases (if available)
- ✓ High level Design Documents
- ✓ Low Level Design Documents
- ✓ Process Guide line document
- ✓ Prototypes

5. Features to be tested:

a) User Registration:

1. Verify that users can register with valid details such as Email, and Password.

2. Verify that users cannot register with invalid or duplicate email addresses.
3. Verify that mandatory fields are properly validated and error messages are displayed for missing or invalid information.
4. Verify that users receive confirmation emails after successful registration.

b) User Login:

1. Verify that users can login with valid credentials (email and password).
2. Verify that users cannot login with invalid or incorrect credentials.
3. Verify that users can reset their password in case they forget it.
4. Verify that appropriate error messages are displayed for incorrect login attempts.

c) Product browsing and searching:

1. Verify that users can search for products based on various criteria such as keywords, categories, brands, etc.
2. Verify that search results display accurate and relevant products.
3. Verify that users can filter and sort search results based on different parameters.

d) Shopping cart functionality

1. Verify that users can add products to their cart and view the cart contents.
2. Verify that users can update the quantity or remove products from the cart.

6. Features not to be tested: NA

7. Entry Criteria:

a) Test Design:

- 1.Team formation, Responsibilities, schedule, requirements, test case Templates.
2. Training on domain, on automation tools.

b) Test Execution:

- 1.Readiness of test tab
- 2.Readiness of AUT
- 3.Requirements
- 4.Test case Documents
- 5.Test data
- 6.Defect Report Template Etc....

8) Exit Criteria:

- a) All possible test cases executed
- b) Maximum defect fixed; final regression performed successfully
- c) Confidence on test process
- d) Time limitations
- e) Budget limitations

9) Suspension criteria: NA

10) Roles and Responsibilities:

S.NO	NAME	ROLE	RESPONSIBILITIES	REMARKS
1	Ravi Sai Chowdary Akkina	Test Lead	Test planning, guidance, Monitoring and test control	
2	Ravi Sai Chowdary Akkina	Tester	Test data collection, Generating test scenarios	
3	Ravi Sai Chowdary Akkina	Tester	Test case documentation, test execution, defect reporting and tracking for admin module	

4	Ravi Sai Chowdary Akkina	Tester	Test case documentation, test execution, defect reporting and tracking for Personal banking module	
5	Ravi Sai Chowdary Akkina	Tester	Test case documentation, test execution, defect reporting and tracking for corporate banking module	

11.Schedule:

SNO	TASK	DAYS	DURATION	REMARKS
1	Understanding and Analysing requirements	2	4-01-2024 to 9-01-2024	
2	Review meeting	1	10-01-2024	
3	Generating Test scenarios	2	11-01-2024 to 12-01-2024	
4	Reviews	2	13-01-2024 to 14-01-2024	
5	Test case Documentation	1	15-01-2024	
6	Reviews	1	16-01-2024	
7	Test data collection	1	17-01-2024	
8	Reviews	1	17-01-2024	
9	Verifying Test Environment Setup	1	18-01-2024	
10	Create Test Batches	1	19-01-2024	
11	Sanity Testing	1	19-01-2024	
12	Comprehensive testing	1	20-01-2024	
13	Sanity Testing	1	20-01-2024	
14	Selecting Test Cases	1	20-01-2024	
15	Regressing Testing	2	21-01-2024 to 22-01-2024	
16	Sanity Testing	1	23-01-2024	
17	Selecting Test Cases	1	24-01-2024	
18	Regression Testing cycle -2	2	25-01-2024 to 26-01-2024	
28	Final Regression	1	26-01-2024	
29	Evaluating Exit Criteria	1	27-01-2024	
30	Collecting all artifacts	1	27-01-2024	
31	Test Summary Report	1	28-01-2024	

12) Training:

1. Training program on Amazon Domain.
2. Test Automation Training Using Katalon Tool.

13) Risks and Mitigations:

Time

Budget

14) Test Environment/ Lab:

Application Type: Web Application, Internet and public.

Server Side:

1. Host name RAJU
1. Local OS Windows 11 64bit
2. Katalon version 8.6.8
3. Browser Chrome 121.0.6167.140

15) Test Deliverables:

1. Test Plan
2. Review reports
3. Test Scenario docs
4. Test Case Docs
5. Test data
6. Opened, closed defect report
7. Test summary report

16) Approvals:

SNO	TASK/S	AUTHOR/ RULE	DATE & SIGNATURE
1	Test plan documentation	Dr T Mamatha (Test Lead)	
2	Review	Dr T Mamatha (Quality analyst)	
3	Approval	Dr T Mamatha (Project Manager)	

17) Glossary

AUT- Application Under Test

SRS- Software Requirement Specification